Exhibit I

N-acetyl Neuraminic Acid (Sialic Acid)

Neu NAc α 2,3 Gal β1, 4 Glc NAc 2' Sialyl Lac Nac

(β1, 4 Gal Nac T ↘ FT II (3,5,7)

Neu NAc α 2,3 Gal β1,4 Glc Nac

↑ β1,4 /

Gal Nac

Neu NAc α 2,3 Gal β1 4 Glc Nac

↑ 3α

Fucose

To Prepare TEA (HPLC)

2 M (TEA) Acetate pH 5.5 (one liter)

550 ml H_2O

120 ml Glacial Acetic Acid (1120/liter - 2M)

Titrate w/ Triethylamine to 5.5

150+ mls

Bring to 1 liter - filter thru Millipore filters (designed for HPLC reagents)

FT7 assays

Vol		FT7
0.5	1M Na Cacodylate	3.5
0.2	2M $MnCl_2$	1.4
0.4	500mM L-fucose	2.8
1.0	100mM ATP	7.0
.8	^{14}C GDP-fucose	5.6
	H_2O to 20	35.7

Stock of Sialyl α 2,3 Lac Nac FW: 675

50mM - 29.6+ / 1 mg

Cocktail

	cocktail	Extract	H_2O — Acc	H_2O + Acc (SLN 50mM)	
FT3 DL	8.0	4.0	8	6	2
FT3 BK	8.0	4.0	8	6	2
FT7 SN	8.0	10.0	2	0	2

Enz Rxn 3hrs 37°C, Partition ~~xxxx~~ NaH_2PO_4 Column count

Sulfated Acceptor Spot of 20 µl rxn

6.14 mg/100 µl 18.7 µl = 2.3 mg

WED 14:05

Reaction counts
Appear to have
Worked

Dry down remaining
Portion of Ym
& Put on HPLC

PARAMETER GROUP: 1
ID: 14-C 1 MIN

POS	CTIME	CPM1	
001	00060	734.57	FT3 DC + Acc
002	00060	398.40	FT3 DC −
003	00060	1617.20	FT3 BK +
004	00060	518.50	FT3 BK −
005	00060	1185.50	FT7 +
006	00060	368.40	FT7 −

POS	CTIME	CPM1	
011	00060	468.50	TOTAL COUNTS Spl
012	00060	425.40	
013	00060	417.96	
014	00060	517.50	
015	00060	482.50	
016	00060	487.50	

TOTAL COUNT RATE: 7621.9 CPM

From the HPLC Data
the counts in FT7 (SN)
Samples are only Factor
This Ec prep is inactive

Cells were transfected on 2/27 w/ mFT7 (1, 2ab, 3) and hFT3 (JBC 125)

Cells were FACS Analyzed on 2/30 - 4 plates each
Stained w/ Lx ; SLx + H

	H	SLx	Lx	
mFT7	−	+	−	
hFT3	−	+	+	as would expect

Make cell 1% Triton extract portion off
Fucosyl Transferase Assay SCH as accepted

	Cocktail	Extract	H_2O −	+	H_2O
FT3	10.5	7.5	2	2	
FT7	10.5	7.5	2	2	
Previous FT3(B)	10.5	4.0	5.5	2	3.5

Cocktail (4 rxns)

0.5 MaCaCo	2.0
0.2 2M MnCl	0.8
0.4 L-fucose	1.6
1.0 ATP	4.0
0.8 6D Fucose	3.2
10.4 H_2O	40.4

MON 16

All rxns worked fine

Use this extract to Checkout Sulfated acceptor and run these on the HPLC

PARAMETER GROUP: 1
ID: 14-C 1 MIN

POS	CTIME	CPM1	
001	00060	3677.65	FT3B
002	00060	7989.80	FT3 (new)
003	00060	1651.20	FT7
004	00060	746.80	- rxn
005	00060	1945.80	- rxn
006	00060	679.70	- rxn
007	00060	454.50	
008	00060	457.50	
009	00060	474.50	
010	00060	454.50	
POS	CTIME	CPM1	
011	00060	409.40	
012	00060	442.40	

Spl of 20µl rxn adjusted to 250µl count 10

TOTAL COUNT RATE: 18383.8 CPM

HPLC rxns
- Mock
- Fucose
- GDP fucose
- SLX (Standard)
- FT3 (new) rxn product
- FT7 reaction product - product migrates w/ SLX

Run FT assays w/ FT3 and SLX and Sulfated acceptor. The sulfated acceptor will not be recovered over NaH_2PO_4 Columns, analysis will be thru the HPLC separation

FT assay	cocktail	Extract	SLN 50mM	Sul 50mM	H_2O
FT3 -S1	13	5.0	2.0		
Sul	13	5.0		2.0	
S2	13	5.0	2.0		
—	13	5.0			2.0

cocktail	
$NaCaCO$	3.5
$MnCl_2$	1.4
Lfuc	2.8
ATP	7.0
GDPfuc	5.6
H_2O	53.2

HPLC Analysis
- Mock
- fucose
- GDP fucose
- SLX
- FT3/SLN FT7 SLN

Acceptors [final] 5mM